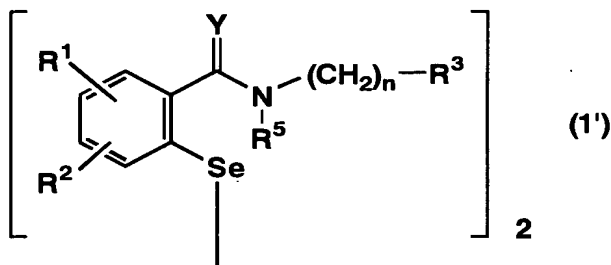
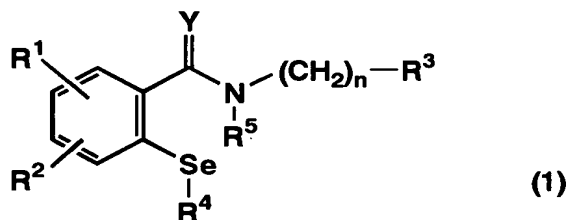


## ABSTRACT

A substrate for thioredoxin reductase which comprises a compound represented by the following general formula (I) or (I'):



wherein  $R^1$  and  $R^2$  independently represent a hydrogen atom, a halogen atom, a trifluoromethyl group and the like;  $R^3$  represents an aryl group, an aromatic heterocyclic group and the like;  $R^4$  represents a hydrogen atom, a hydroxyl group, a  $\cdot S \cdot \alpha$ -amino acid group and the like;  $R^5$  represents a hydrogen atom or a  $C_1$ - $C_6$  alkyl group;  $Y$  represents oxygen atom or sulfur atom;  $n$  represents an integer of from 0 to 5; and the selenium atom may be oxidized, whose example includes 2-phenyl-1,2-benzisoselenazol-3(2H)-one or a ring-opened form thereof. The substrate is reduced by thioredoxin reductase in the presence of NADPH and enhances peroxidase activity of thioredoxin reductase.